As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe that I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention, the specification of which is attached hereto and which has the following title:

Dynamically-Assigned Voice and Data Channels in a Digital-Subscriber Line (DSL)

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to in the oath of declaration. I acknowledge a duty to disclose information which is material to examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby appoint the following Agent to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:
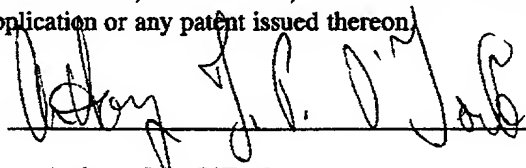
Stuart T. Auvinen, Reg. No. 36,435

Address all telephone calls to Stuart T. Auvinen at telephone No. (831) 476-5506.

Address all correspondence to:

Stuart T. Auvinen
429 Twenty-Sixth Ave.
Santa Cruz, CA 95062

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, Section 1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Joint/First Inventor's Signature _____ date: July 23rd 1998.
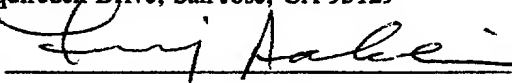
Full name of first inventor: Anthony J.P. O'Toole
Residence: San Jose, CA   Citizen of: United Kingdom
Post Office Address: 6187 Squiredell Drive, San Jose, CA 95129

Joint/Second Inventor's Signature _____ date: July 23rd 1998

Full name of second inventor: Faraj Aalaei
Residence: Fremont, CA   Citizen of: USA
Post Office Address: 39939 Stevenson Common, Fremont, CA 94538